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Substitute Form PTO-1449 (Modified)

(37 CFR §1.98(b))

U.S. Department of Commerce Patent and Trademark Office Attorney's Dockettid: CENTER Application No. 10278-009001

09/407,605

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## **Information Disclosure Statement** by Applicant

(Use several sheets if necessary)

Allan M. Miller et al.

Filing Date

Applicant

September 28, 1999

Group Art Unit 1643

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		ocuments (include Author, Title, Date, and Place of Publication)
Examiner	Desig.	_
Initial	ID	Document
14	AV	Chiu et al., "Engineered GFP as a vital reporter in plants", <u>Current Biology</u> , Vol. 6, No. 3, pp 325-330 (1996)
	AW	D'Onofrio et al., "Correlations between the Compositional Properties of Human Genes, Codon Usage, and Amino Acid Composition of Proteins", <u>Journal of Molecular Evolution</u> , Vol. 32, No. 6, pp 504-510 (1991)
	AX	Eyre-Walker, "An Analysis of Codon Usage in Mammals: Selection or Mutation Bias?", Journal of Molecular Evolution, Vol. 33, No. 5, pp 442-449 (1991)
	AY	Haas et al., "Codon usage limitation in the expression of HIV-1 envelope glycoprotein", <u>Current Biology</u> , Vol. 6, No. 3, pp 315-324 (1996)
	AZ	Hannig et al., "Strategies for optimizing heterologous protein expression in <i>Escherichia</i> coli"; <i>TIBTECH</i> , Vol. 16, pp 54-60 (1998)
	ВА	Herrick et al., "Identification and Comparison of Stable and Unstable MRNAs in <i>Saccharomyces cerevisiae</i> ", Molecular and Cellular Biology, Vol. 10, No. 5. pp 2269-2284 (1990)
	BB	Herrick et al., "The Half-Life of c-myc mRNA in Growing and Serum-Stimulated Cells: Influence of the Coding and 3' Untranslated Regions and Role of Ribosome Translocation", Molecular And Cellular Biology, Vol. 14, No. 3, pp 2119-2128 (1994)
	ВС	Hoekema et al., "Codon Replacement in the <i>PGK1</i> Gene of <i>Saccharomyces cerevisiae</i> : Experimental Approach To Study the Role of Biased Codon Usage in Gene Expression", Molecular and Cellular Biology, Vol. 7, No. 8, pp 2914-2924 (1987)
	BD	Hubatsch et al., "Human glutathione transferase A4-4: an Alpha class enzyme with high catalytic efficiency in the conjugation of 4-hydroxynonenal and other genotoxic products of lipd peroxidation"; <i>Biochem. J.</i> , 330, pp 175-179 (1998)
·	BE	Kim et al., "Codon optimization for high-level expression of human erythropoietin (EPO) in mammalian cells"; <i>GENE</i> , 199, pp 293-301 (1997)
1	BF	Kurland, "Codon bias and gene expression", <u>FEBS Letters</u> , Vol. 285, No. 2, pp 165-169 (1991)
	BG	Mehta et al., "Optimized Gene Synthesis, High Level Expression, Isotopic Enrichment, and Refolding of Human Interleukin-5"; Protein Expression And Purification, 11, pp 86-94 (1997)
	ВН	Parker et al., "Translation and a 42-nucleotide segment within the coding region of the mRNA encoded by the <i>MATα1</i> gene are involved in promoting rapid mRNA decay in yeast", <u>Proc. Natl. Acad. Sci. Vol. 87. No. 7, pp 2780-2784 (1990)</u>
8	В1	Solomovici et al., "Does <i>Escherichia coli</i> Optimize the Economics of the Translation Process?"; <i>J. theor. Biol.</i> , 185, pp 511-521 (1997)
	BJ	Wright, "The 'Effective number of codons' used in a gene", Gene, Vol. 87, No. 1, pp 23-29 (1990)
	ВК	Yang et al., "Optimized codon usage and chromophore mutations provide enhanced sensitivity with the green fluorescent protein", Nucleic Acids Research, Vol. 24, No. 22, pp 4592-4593 (1996)
:	BL	Zhang et al., "An Enhanced Green Fluorescent Protein Allows Sensitive Detection of Gene Transfer in Mammalian Cells", <u>Biochemical And Biophysical Research Communications</u> , Vol. 227, No. 3, pp 707-711 (1996)
,	ВМ	Zhang et al., "Graphic Analysis of Codon Usage Strategy in 1490 Human Proteins", Journal of Protein Chemistry, Vol. 12, No. 3, pp 329-335 (1993)

EXAMINER: Initials citation considered Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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			U.S. Pate	ent Documents			
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
HK	AA	4,965,199	10/23/90	Capon et al.	435	69.6	08/07/87
	AB	5,786,464	07/28/98	Seed	536	23.5	09/19/94
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11	AL	WO 96/09378	28.03.96	PCT		-		
	AM	WO 97/26333	24.07.97	PCT	. —			
	AN	WO 97/31115	28.08.97	PCT				
	AO	WO 97/47358	18.12.97	PCT		·		
	AP	WO 97/48370	24.12.97	PCT				
i /	AQ	WO 98/12207	26.03.98	PCT	_			

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Initial	ID	Document				
HK	AR	Andre et al., "Increased Immune Response Elicited by DNA Vaccination with a Synthetic gp120 Sequence with Optimized Codon Usage"; <i>Journal of Virology</i> , Vol. 72, No. 2, pp 1497-1503 (1998)				
	AS	Berg et al., "Growth Rate-optimised tRNA Abundance and Codon Usage"; <i>J. Mol. Biol.</i> , pp 544-550 (1997)				
	AT	Billinton, et al., "Development of a green fluorescent protein reporter for a yeast genotoxicity biosensor": <i>Biosensors &amp; Bioelectronics</i> 13, pp. 831–838 (1008)				

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Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
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